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April 20, 2020

Town of Barrington
Planning Board
333 Calef Highway
Barrington, NH 03825

**Re: Traffic Impact Analysis
Barrington Shores
7 Barrington Shores Drive
Barrington, NH
#1958**

Dear Planning Board:

Farwell Engineering Services, LLC (FES) has evaluated the traffic impact of the proposed site for Campground/Recreational Vehicle Park use. The existing Park consists of 156 camp sites. This project proposes to add 28 more sites for a total of 184.

According to the manager of Barrington Shores Campground, the Campground is at 95% occupancy from Friday to Sunday and 25% occupancy Monday thru Friday.

Barrington shores is accessed from Hall Road. Hall Road is a major collector for the town of Barrington, with a posted speed limit of 30 MPH.

This analysis is to compare the existing week day peak am and pm traffic rate with the expanded campsites.

Trip Generation and Distribution

The Institute of Transportation Engineers (ITE) Trip Generation 9th Edition provides trip generation rates for a wide variety of land uses based on studies throughout the country. Weekday, morning and afternoon peak hour trip generation rates for Campground/Recreational Vehicle Park are listed below. Please note that the ITE does not have Weekend trip generation information.

Existing 156 campsite use:

Land use

Farwell Engineering Services
April 2020

Peak hour trip generation rates

Barrington Shores Campground

416	Campground/Recreational Vehicle Park	<u>Morning*</u> 0.21/OCS 33 trips	<u>Afternoon**</u> 0.27/OCS 43 trips
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OCS = Occupied Camp Site

156 – campsites 100% Occupied

*- peak hour of adjacent street traffic, One hour between 7 and 9 am.

** - Peak hour of adjacent street traffic, One Hour between 4 and 6 pm

Proposed 184 campsite use:

<u>Land use</u>		<u>Peak hour trip generation rates</u>	
		<u>Morning</u>	<u>Afternoon</u>
416	Campground/Recreational Vehicle Park	0.21/OC 39 trips	0.27/OC 50 trips

OC = Occupied Campsite

184 – campsites 100% Occupied

*- peak hour of adjacent street traffic, One hour between 7 and 9 am.

** - Peak hour of adjacent street traffic, One Hour between 4 and 6 pm.

Conclusion:

The increase in camp sites will create an increase in traffic of 6 trips for the Weekday am Peak Hour of adjacent street traffic, one hour between 7 and 9 am. There will be an increase of 7 trips for the Weekday pm Peak Hour of adjacent street traffic, one hour between 4 and 6 pm. This is a seasonal campground and will have no traffic in the off season.

The ITE trip generation manual does not have figures for weekend rates. We can assume with an 18% increase in sites that there will be an 18% increase in weekend traffic rate. Given that the police chief has not voiced a concern over traffic issues at this location, it is our opinion that the increase in campsites will generate little additional trips (6-7 for weekday peak street traffic). This proposed increase in traffic will not lower the level of service for access to the site or leaving the site.

Please contact me directly if you have any questions or require any additional information.

Sincerely,

FARWELL ENGINEERING SERVICES, LLC

Tobin Farwell, P.E.
Principal